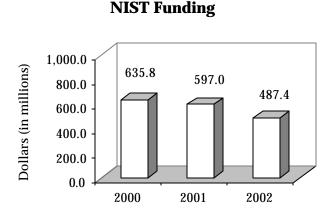
## National Institute of Standards and Technology

The National Institute of Standards and Technology (NIST) is responsible for the measurement foundation that supports U.S. industry, government and scientific establishments. NIST promotes U.S. economic growth by working with industry to develop and apply technology, measurements, and standards. NIST carries out this mission through the following major programs.

The **NIST Laboratories** research program focuses on providing the measurements, standards, verified data, and test methods required for new technologies and competing in the global economy. The world-class scientific and technical staff works closely with private industry, academic researchers, and other government agencies.



#### The Advanced Technology Program (ATP) supports cost-

shared awards to accelerate commercialization of high-risk, broadly enabling technologies that promise significant economic benefits for the Nation.

The **Manufacturing Extension Partnership (MEP) Program** assists small and medium-sized companies in assimilating new technologies and manufacturing practices through government-industry partnerships and extension services.

The **Baldrige National Quality Program (BNQP)** is a highly visible quality management program, focused on instilling the principles of continuous quality improvement in American businesses.

The **Critical Infrastructure Protection Grant Program (CIPGP)** was initiated in FY 2001 to fund private sector research to develop solutions to the widespread vulnerabilities in the Nation's information infrastructure.

In addition, NIST has initiated a long-term program to upgrade its physical plant. Significant and sustained investment to upgrade existing facilities, which are 35 to 45 years old, is required to support NIST research in the 21st century. The FY 2002 budget includes funding to continue addressing the backlog of safety, capacity, maintenance and major repair projects at both the Gaithersburg, Maryland and Boulder, Colorado facilities. In accordance with the long-term program to upgrade NIST facilities, a construction contract was awarded in September 2000 and construction has begun on the Advanced Measurement Laboratory (AML). The AML will be a new state-of-the-art facility for the next generation of standards and measurements.

#### **NIST Performance Measures**

NIST supports Commerce's strategic goal to provide infrastructure for innovation to enhance American competitiveness.

A more detailed presentation of goals, objectives, and performance measures is found in the Department's Annual Performance Plan/Annual Performance Plan Report, and NIST's budget justification.

# **Summary of Appropriations**

## **Funding Levels**

			<u>2002</u>	Increase
Appropriation	<u>2000</u>	<u>2001</u>	Estimate	(Decrease)
Scientific and Technical Research and Services	\$282,138	\$311,929	\$347,288	\$35,359
Industrial Technology Services	246,780	250,285	119,266	(131,019)
Construction of Research Facilities	106,880	34,802	20,893	(13,909)
Total Appropriation	635,798	597,016	487,447	(109,569)
Working Capital Fund	[250]	[282]	[282]	0
TOTAL BUDGET AUTHORITY	635,798	597,016	487,447	(109,569)
PERMANENT POSITIONS				
Scientific and Technical Research and Services	1,972	2,007	2,168	161
Industrial Technology Services	376	373	219	(154)
Construction of Research Facilities	50	50	50	0
Working Capital Fund	706	695	695	0
Total	3,104	3,125	3,132	7

## **Highlights of Budget Changes**

## **Appropriation: Scientific and Technical Research and Services**

### **Summary of Requirements**

	<u>Detai</u>	iled	Sumn	<u>nary</u>
	Perm Pos	<u>Amount</u>	Perm Pos	<u>Amount</u>
2001 Enacted			2,007	\$311,929
Adjustments to Base			,	, ,
Adjustments				
Restoration of FY 2001 Deobligation Offset		\$1,000		
Restoration of security base		482		
Less nonrecurring project		(2,000)		
ITS lab adjustment	154	20,617		
Subtotal, adjustments			154	20,099
Other Changes				.,
2001 Pay raise		1,737		
2002 Pay raise		4,597		
Payment to the Working Capital Fund		¥,337 87		
Information Technology Pay Adjustment		288		
Information Technology Pay Adjustment (WCF)		3		
Full year cost in FY 2002 of positions financed for part year in FY 2001	0	0		
Within-grade step increases	v	1,615		
One more compensable day		663		
Civil Service Retirement System(CSRS)		(287)		
Federal Employees' Retirement System(FERS)		360		
Thrift Savings Plan		67		
Federal Insurance Contributions Act (FICA) -OASDI		202		
Health insurance		670		
Employees' Compensation Fund		11		
Travel				
Per diem		297		
Mileage		7		
Rental payments to GSA		1		
Postage		25		
Printing and reproduction		12		
Other services:				
Working Capital Fund		239		
Commerce Administrative Management System (CAMS) NIST		5,264		
CAMS NIST clients	7	2,669		
NARA storage and maintenance		(1)		
Supplies and materials:				
NIST journal subscriptions		169		
Reactor fuel		37		
General pricing level adjustment:				
Transportation of things		19		
Rental payments to others		50		

	<u>Deta</u>	iled	Sumn	<u>nary</u>
	Perm Pos	<u>Amount</u>	Perm Pos	<b>Amount</b>
Communications, utilities, & miscellaneous charges		\$196		
Other services		614		
Supplies and materials		253		
Equipment		430		
Subtotal, other cost changes			7	\$20,294
Less Amount Absorbed		_		(4,034)
TOTAL, ADJUSTMENTS TO BASE		_	161	36,359
2002 Base		-	2,168	348,288
Program Changes			0	0
TOTAL REQUIREMENTS		-	2,168	348,288
Recoveries from Prior Year Obligations				(1,000)
2002 APPROPRIATION		-	2,168	347,288

### **Comparison by Activity**

	2001 Curre	ently Avail	2002 Base	e	2002 Esti	mate	Increase /	Decrease
DIRECT OBLIGATIONS	Perm Pos	Amount	Perm Pos	Amount	Perm Pos	Amount	Perm Pos	Amount
Electronics & electrical engineering	263	\$40,797	263	\$41,214	263	\$41,214	0	\$0
Manufacturing engineering	138	20,023	138	20,389	138	20,389	0	0
Chemical science & technology	231	34,806	253	38,499	253	38,499	0	0
Physics	164	32,695	194	37,154	194	37,154	0	0
Materials science & engineering	345	56,397	390	62,696	390	62,696	0	0
Building & fire research	107	17,666	107	16,024	107	16,024	0	0
Computer science & applied math.	340	56,006	362	59,702	362	59,702	0	0
Technology assistance	116	17,742	116	17,857	116	17,857	0	0
National quality program	51	5,815	51	5,417	51	5,417	0	0
Critical infrastructure protection gra	2	4,989	2	4,992	2	4,992	0	0
Research support activities	250	31,995	292	44,062	292	44,062	0	0
TOTAL DIRECT OBLIGATIONS	2,007	318,931	2,168	348,006	2,168	348,006	0	0
FINANCING								
Unobligated balance, start of year		(6,284)						
Recovery of prior year obligations		(1,000)		(1,000)		(1,000)		0
Subtotal, financing	0	(7,284)	0	(1,000)	0	(1,000)	0	0
TOTAL BUDGET AUTHORITY	2,007	311,647	2,168	347,006	2,168	347,006	0	0
Transfers		282		282		282		0
TOTAL APPROPRIATION	2,007	311,929	2,168	347,288	2,168	347,288	0	0

## **Appropriation:** <u>Industrial Technology Services</u>

### **Summary of Requirements**

	<u>Detai</u>	<u>led</u>	<u>Summ</u>	<u>iary</u>
	Perm Pos	<u>Amount</u>	Perm Pos	<u>Amount</u>
2001 Enacted			373	\$250,285
Adjustments to Base:				
Adjustments				
Restoration of FY 2001 deobligation offset		\$3,800		
Unobligated balance start of year		67,143		
Unobligated balance end of year		(3,997)		
Restoration of security base		136		
ITS lab adjustment	(154)	(20,617)		
Subtotal, adjustments		_	(154)	46,465
<b>Other Changes</b>				
2001 Pay raise		322		
2002 Pay raise		868		
Payment to the Working Capital Fund		25		
Information Technology Pay Adjustment		51		
Information Technology Pay Adjustment (WCF)		1		
Within-grade step increases		310		
One more compensable day		123		
Civil Service Retirement System(CSRS)		(55)		
Federal Employees' Retirement System(FERS)		69		
Thrift Savings Plan		13		
Federal Insurance Contributions Act (FICA) -OASDI		38		
Health insurance		113		
Employees' Compensation Fund		(2)		
Travel				
Per diem		61		
Mileage		2		
Postage		7		
Printing and reproduction		3		
Other services:				
Working Capital Fund		33		
MEP center salaries		728		
General pricing level adjustment:				
Transportation of things Rental payments to others		2 12		
Communications, utilities, & miscellaneous charges Other services		41 348		
Supplies and materials		348 35		
Equipment		53		
Subtotal, other cost changes			0	3,201
Less Amount Absorbed			•	(845)
TOTAL, ADJUSTMENTS TO BASE		=	(154)	48,821

	<u>Deta</u>	<u>iiled</u>	Sumn	<u>nary</u>
	<u>Perm Pos</u>	<u>Amount</u>	Perm Pos	<u>Amount</u>
2002 Base			219	\$299,106
Program Changes			0	(112,894)
TOTAL REQUIREMENTS			219	186,212
Recoveries from Prior Year Obligations			0	(3,800)
Unobligated Balance start of year			0	(67,143)
Unobligated Balance end of year			0	3,997
2002 APPROPRIATION			219	119,266

#### Comparison by Activity

	2001 Curre	ently Avail	2002	Base	2002 Es	timate	Increase /	/ Decrease
DIRECT OBLIGATIONS	Perm Pos	Amount	Perm Pos	Amount	Perm Pos	Amount	Perm Pos	Amount
Advanced Technology Program	268	\$132,467	114	\$192,832	114	\$79,938	0	(\$112,894)
Manufacturing Extension Partnershi	105	108,483	105	106,274	105	106,274	0	0
TOTAL DIRECT OBLIGATIONS	373	240,950	219	299,106	219	186,212	0	(112,894)
FINANCING								
Unobligated balance, start of year		(54,008)		(67,143)		(67,143)		0
Recovery of prior obligations		(3,800)		(3,800)		(3,800)		0
Unobligated balance, end of year		67,143		3,997		3,997		0
Subtotal, financing		9,335		(66,946)		(66,946)		0
TOTAL BUDGET AUTHORITY	373	250,285	219	232,160	219	119,266	0	(112,894)
Transfer to Working Capital Fund		0		0		0		0
TOTAL APPROPRIATION	373	250,285	219	232,160	219	119,266	0	(112,894)

#### **Highlights of Program Changes**

	<u>Ba</u>	ase	<u>Increase</u>	<u>/Decrease</u>
	Permanent <u>Positions</u>	Amount	Permanent <u>Positions</u>	Amount
Advanced Technology Program	114	\$192,832	0	-\$112,894

A decrease (0 pos.; -\$112,894) is requested. The Administration proposes to suspend the granting of new ATP awards in FY 2002. Resources available in FY 2002 would be used to pay for prior-year commitments and administrative costs while the Department evaluates the program to determine if ATP assistance to U.S. industry is still needed.

## **Appropriation:** Construction of Research Facilities

### **Summary of Requirements**

	<u>Deta</u>	ailed	<u>Sumn</u>	<u>nary</u>	
	Perm Pos	<u>Amount</u>	Perm Pos	<u>Amount</u>	
2001 Enacted			50	\$34,802	
Adjustments to Base					
Adjustments					
Nonrecurring grants and cooperative agreements				(14,000)	
Other Changes					
2001 Pay raise		\$24			
2002 Pay raise		52			
Within-grade step increases		15			
One more compensable day		7			
Civil Service Retirement System(CSRS)		(3)			
Federal Employees' Retirement System(FERS)		4			
Thrift Savings Plan		1			
Federal Insurance Contributions Act (FICA) -OASDI		2			
Health insurance		7			
Travel:					
Per diem		1			
General pricing level adjustment:					
Other services		301			
Supplies and materials		18			
Equipment		12			
Subtotal, other cost changes			0	441	
Less Amount Absorbed		_		(350)	
TOTAL, ADJUSTMENTS TO BASE		_	0	(13,909)	
2002 Base		-	50	20,893	
Program Changes			0	0	
2002 APPROPRIATION		-	50	20,893	

#### **Comparison by Activity**

	2001 Curre	ently Avail	2002	Base	2002 Es	timate	Increase /	Decrease
DIRECT OBLIGATIONS	Perm Pos	Amount	Perm Pos	Amount	Perm Pos	Amount	Perm Pos	Amount
Construction & Major Renovations	50	\$60,741	50	\$20,893	50	\$20,893	0	\$0
TOTAL DIRECT OBLIGATIONS	50	60,741	50	20,893	50	20,893	0	0
FINANCING								
Unobligated balance, start of year		(25,939)						
Unobligated balance, end of year				-				
Subtotal, financing	0	(25,939)		-	0	0		
TOTAL BUDGET AUTHORITY	50	34,802		-	50	20,893		
Transfer to Working Capital Fund				-				
TOTAL, APPROPRIATION	50	34,802		•	50	20,893		

## **Appropriation: Working Capital Fund**

### **Comparison by Activity**

	2001 Curre	ently Avail	2002 Base	e	2002 Esti	mate	Increase /	Decrease
DIRECT OBLIGATIONS	Perm Pos	Amount	Perm Pos	Amount	Perm Pos	Amount	Perm Pos	Amount
Direct Obligations	0	\$282	0	\$282	0	\$282	0	\$0
Reimbursable Obligations	695	122,998	695	121,812	695	121,812	0	0
WCF Investments		25,116		22,018		22,018	0	0
TOTAL OBLIGATIONS	695	148,396	695	144,112	695	144,112	0	0
FINANCING								
Unobligated balance, start of year		(60,942)				(54,391)		
Unobligated balance, end of year		54,391				53,144		
Offsetting collections from:								
Federal funds		(101,800)				(101,800)		
Non-Federal sources		(39,763)				(40,783)		
Subtotal, financing	0	(148,114)		·	0	(143,830)		
TOTAL BUDGET AUTHORITY	695	282			695	282		
TRANSFERS								
From STRS		(282)				(282)		
From ITS		0		ı		0		
TOTAL, APPROPRIATION	695	0			695	0		